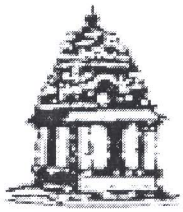

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION : BYATARAYANPURA

SUB DIVISION: BYATARAYANPURA

Name of work: *Maintenance of water supply works to existing borewells at Thanisandra Village Surrounding area in Ward No. 06 Byatarayanapura Sub Division*

Estimated Cost : Rs 20.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 2000000.00

ıme of Work: Maintenance of water supply works to existing borewells at Thanisandra Village rrounding area in Ward No. 06 Byatarayanapura Sub Division

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
A) Rewinding								
Labour Charges of lifting of non functioning submersible Pump set along with cable and GI Pipes (BWSSB SR 14-15, P-558 I-1(i)	Each Length	2X35	50.00			**3500**	109.00	**381500.00**
Transportation of pumping machineries (**P. 56 / I. 10.3.19) PRED SR (2012-13)**	Each	35				**35**	900.00	**31500.00**
Rewinding of Submersible Pump Sets								
(BWSSB SR 14-15 P-58 I-A) 10 HP	No.	6				**6**	4785.00	**28710.00**
(BWSSB SR 14-15 P-58 I-A) 7.5 HP	No.	8				**8**	3822.00	**30576.00**
(BWSSB SR 14-15 P-58 I-A) 12.5 HP	No.	10				**10**	5885.00	**58850.00**
(BWSSB SR 14-15 P-58 I-A) 15.0 HP	No.	11				**11**	5800.00	**63800.00**
B) Replacement of Motor Parts:								
Pump Bowls (BWSSB SR 14-15 P-58 I-B)	No.	175				**175**	308.00	**53900.00**
Intermediate Piece (I.P) With IP Leaded Bronxe bush (BWSSB SR 14-15 P-58 I-B2)	No.	35				**35**	715.00	**25025.00**
Upper Flange **(BWSSB SR 14-15 P-59 I-C3)**	No.	35				**35**	330.00	**11550.00**
Lower Housing **(BWSSB SR 14-15 P-59 I-C4)**	No.	35				**35**	539.00	**18865.00**
Guide vane **(BWSSB SR 14-15 P-58 I-B5)**	No.	130				**130**	192.50	**25025.00**
Impeller Shell moulded with aluminium Bronze) (BWSSB SR 14-15 P-58 I-B6)	No.	35				**35**	264.00	**9240.00**
Discharge outlet (D.O) Bearing D.O Steel Bush **P. (BWSSB SR 14-15 P-58 I-B7)**	No.	40				**40**	522.50	**20900.00**
Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **(BWSSB SR 14-15 P-58 I-B10)**	No.	35				**35**	660.00	**23100.00**
Pump Couping (Stainless Steel) (BWSSB SR 14-15 P-58 I-B12)	No.	35				**35**	341.00	**11935.00**
Stud and Nuts (BWSSB SR 14-15 P-59 I-C8)	Each	80				**80**	88.00	**7040.00**
Motor Base With Pin (BWSSB SR 14-15 P-59 I-C11)	Each	20				**20**	407.00	**8140.00**
Starter (with one year Guarantee) **P No. 55 / I No. 10.3.3 PRED SR (2012-13)**	No.	20				**20**	5050.00	**101000.00**
Rotor (with one year Guarantee) **P No. 55 / I No. 10.3.6) PRED SR (2012-13)**	No.	25				**25**	4700.00	**117500.00**
Carbon Housing **P. No. 56 / I No.10.3.12 PRED SR (2012-13)**	No.	35				**35**	475.00	**16625.00**
Thrust bearing block assembly complete with segment bearing pad.**P. No. 55 / I No.10.3.13 PRED SR (2012-13)**	No.	35				**35**	1150.00	**40250.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	Oil Seal **P. No. 54 / I No.10.2.3 PRED SR (2012-13)**	No.	35				**35**	125.00	**4375.00**
5	Oil Seal Steel Bush **P. No. 54 / I No. 10.2.4 PRED SR (2012-13)**	No.	35				**35**	150.00	**5250.00**
	D.O Bearing P. No. 44 / I No. 10.2.7 PRED SR (2012-13)	No.	40				**40**	285.00	**11400.00**
	Steel Bush **P. No.55 / I No. 10.2.9 PRED SR (2012-13)**	No.	160				**160**	150.00	**24000.00**
	Allen Screw P. No.44 / I No. 10.2.9 RDPR SR (2012-13)	No.	95				**95**	25.00	**2375.00**
	Pump Key (Stainless Steel) P. No. 45 / I No. 10.2.11 RDED SR (2012-13)	No.	25				**25**	125.00	**3125.00**
	Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 55 / I No. 10.2.14 PRED SR (2012-13)**	No.	20				**20**	1350.00	**27000.00**
	Cable Guard **P. No. 55 / I No. 10.2.15 PRED SR (2012-13)**	No.	35				**35**	150.00	**5250.00**
	Strainer P. No. 45 / I No. 10.2.15 RDED SR (2012-13)	No.	35				**35**	150.00	**5250.00**
	Brass Filter **P. No. 55 / I No. 10.2.17 PRED SR (2012-13)**	No.	35				**35**	250.00	**8750.00**
	Labour Chargesw (Over Hauling Only) P. No. 45 I No. 10.2.18 PRED SR (2012-13)	No.	35				**35**	556.00	**19460.00**
	Re-erection charges of pumping machineries including overhauling and pointing **P. No. 56 / I o. 10.3.20 PRED SR (2012-13)**	Each	35				**35**	950.00	**33250.00**
	ock Ring P. No. 45 / I No. 10.3.11 PREC SR 012-13)	Each	40				**40**	85.00	**3400.00**
	Carbon Housing P. No. 46 / I No. 10.3.12 PRDED SR (2012-13)	Each	35				**35**	475.00	**16625.00**
	p Carbon/Ferrodo padding P. No. 46 / I No. .3.12 APRDED SR (2012-13)	Each	25				**25**	150.00	**3750.00**
	aring (Gunmetal) Centrifugal) Cast Aluminium onxe, Beaing bush P. No. 46 / I No. 10.3.16 RDED SR (2012-13)	Each	30				**30**	400.00	**12000.00**
	cillps P. No. 45 / I No. 10.3.17 PREC SR 12-13)	Each	40				**40**	50.00	**2000.00**
	aral Itmes								
	plying and fixing of Porcelain fuse channel cut out on existing wooden / panel using essary nuts, bolts and washer etc., plete.... **P No. 32/I No 3b KPWD trical SR 2010-11**	No.							
	mps		35	3.00			**105.00**		
							105.00	150.00	**15750.00**
	ading of GI Pipes 50mm Dia P. No. 15 / I .11.6 PRED SR (2012-13)		35X40				**1400.00**	25.00	**35000.00**

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Supplying of submersible pump cable 1X3X6[illegible] Sq.mm (Page No. XLVII, Sl NO. 8, PWD SR-2018-19	Mtr							
		1	1000.00			**1000.00**	144.00	**144000.00**
Supplying and fixing MCB (P.NO - XLVII, SL.NO - 19, PWD SR 18-19)	No's							
		36	1.00			**36.00**	900.00	**32400.00**
Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 6, I.NO - 2.3, PWD SR 18-19)	Cum							
		1	730.00	0.45	0.75	246.38		
						246.38	316.94	**78086.00**
Basic Rate	299.00							
Add 6% Area Weightage	17.94							
	316.94							
Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 96, I.NO - 13.73.2, PWD SR 18-19)	Mtr							
63 mm dia 6 KSC PVC pipe								
		1	730.00			730.00		
						730.00	394.32	**287854.00**
Basic Rate	372.00							
Add 6% Area Weightage	22.32							
Total	**394.32**							
Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming and watering with lead upto 50m and lift upto 1m including cost of all labour complete as per specifications (P.NO - 7, I.NO - 2.11, PWD SR 18-19)	Cum							
		Qty. Vide Item No.				**246.38**	128.26	**31600.00**
Basic Rate	121.00							
6% area weightage	7.26							
Total	128.26							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Supplying & delivery of brand 50mm Gate Valve as PWD SR 18-19, P.NO.XLVII Sl.no, 15	No's							
		16				**16**	1800.00	**28800.00**
Total of Other SR Items including GST Unit Rate Sl No. 1 to 42)								**1323041.00**
Total of PWD SR 2018-19 Items (SL no. 43 to 48)								**602740.00**
12% GST For PWD SR-18-19 Items only								**72329.00**
Miscellaneous and Unforeseen Charges	L/S							**1890.00**
							Total	**2000000.00**

TIFICATE :

The work spot has been inspected and the work is found necessary.
This estimate is prepared as per PWD SR 2018-19, PRED S.R. of Rural Engineering Department
The provisions were made in this estimate are necessary and adequate.
This works come under B.B.M.P. limits.

21.03.2020
ssistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division
Bangalore-24

18/04
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

18/04

Administrative Approval

Accorded For ..Rs. 20.00 lakh(s)
Head of A/C..P-1771
CER NO :..As/1148.. Dt:..20/03/2020

TA

CE (YNK)

TECHNICAL SANCTION

Accorded For Rs..20.00 lakhs only
Head of A/c..P1771, POW works
Div. Ref. No..12/20-21 Date..24/4/2020

AE 24/04

24/04
EE(BTP)